

Material Safety Data Sheet

Section 1: Company and Product Identification



(866) 260-0501

Manufactured by:
Columbus Chemical Industries, Inc.
N4335 Tremkin Rd.
Columbus, WI 53925
TEL: (920) 623-2340

24 HOUR EMERGENCY ASSISTANCE CHEMTREC 800-424-9300 HAZARD RATING		
4- EXTREME 3- SEVERE	HEALTH	3
2- MODERATE 1- SLIGHT	FLAMMABILITY	0
0- MINIMAL	REACTIVITY	2

Product Name Hydrochloric Acid 3.0M

Product No. 9703806

CAS 7647-01-0

Material Uses Not available.

Synonyms Muriatic acid.

Formula HCl

Section 2: Hazardous Ingredients

Product Name

Hydrochloric Acid

CAS

7647-01-0

Conc (%)

< 11

PIN

UN1789

For Exposure Limits (TLV, PEL), LD50 and LC50 see section 5 of this document.

* Chemical subject to the reporting of SARA Title III.

Section 3: Physical Data

Appearance	Liquid.	Odor Threshold	Not available.
Color	Colorless.	Vapor Pressure	3.3 kPa (25 mmHg) (at 20°C)
Odor	Pungent. (Strong.)	Evaporation Rate (Reference solvent)	Not available.
Specific Gravity (Water = 1)	1.01316 (Water = 1)	Vapor Density (Air = 1)	1.3 (Air = 1)
Melting Point	-66°C (-86.8°F)	Percent Volatile by Volume	100% (v/v).
Boiling Point	55°C (131°F)	pH (1% water soln)	1 [Acidic.]
Water/Oil Dist. Coeff.	Not available.	Solubility	Miscible in water.

Section 4: Fire and Explosion Hazard Data

Flash Point (Methods)	Not applicable.	Autoignition Temp.	Not applicable.
Flammable Limits in Air by Volume	Not applicable.		
Flammability	Not applicable.		

Explosion Hazard Not available.

Haz. Comb. Prod. Not applicable.

**Means of
Extinction** Use extinguishing media suitable for surrounding materials.

Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual Fire and Explosion Hazards

Not available.

Section 5: Health Hazard Data

Exposure Limits TWA: 7 mg/m³ from ACGIH (United States).
(P.E.L., TLV, etc.) TWA: 7 mg/m³ from OSHA (United States).

Acute Effects

Hazardous in case of skin contact (corrosive, irritant), of eye contact (corrosive), of inhalation (lung irritant, lung corrosive). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Routes of Entry Absorbed through skin. Eye contact. Ingestion. **LD50/LC50** LD50: Not available.
LC50: Not available.

Effects of Overexposure

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Emergency and First Aid Procedures

SKIN: Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Seek immediate medical attention. EYES: Flush with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention. INHALATION: Move exposed person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention. INGESTION: Do not induce vomiting. If affected person is conscious, give plenty of water to drink. Seek immediate medical attention.

Section 6: Reactivity Data

Stability The product is stable. **Instability Temp.** Not available.

Incompatibility Reactive with oxidizing agents, metals, alkalis.

Degradation Prod. These products are halogenated compounds. **Hazardous polymerization?** Will not occur.

Materials to Avoid Not available.

Section 7: Spill or Leak Procedures

Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: **Neutralize the residue with a dilute solution of sodium carbonate.**

Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 8: Protection Equipment Information

Equipment Face shield. Synthetic apron. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Section 9: Other Information

Special Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 4).

Read label on container before using. Do not wear contact lenses when working with chemicals.

Verified by S. Quandt **Effective Date Printed** 11/13/2002

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to the other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

